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	1300 19TH STREET, N.W. SUITE 600			ART UNIT	PAPER NUMBER
WASHINGTON,, DC 20036				2617	
				DATE MAILED: 09/25/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/785,225	CHOI ET AL.
Office Action Summary	Examiner	Art Unit
	Anthony S. Addy	2617
The MAILING DATE of this communication appeared for Reply	opears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO  .136(a). In no event, however, may a reply be tid  d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDON.	N. mely filed  n the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>07</u> .  2a) ☐ This action is <b>FINAL</b> . 2b) ☐ Th  3) ☐ Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal matters, pr	
Disposition of Claims		
4)  Claim(s) 1-20 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdres 5)  Claim(s) is/are allowed. 6)  Claim(s) 1-20 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	ccepted or b) objected to by the e drawing(s) be held in abeyance. Section is required if the drawing(s) is ob-	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:  1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received.  Its have been received in Applicatority documents have been received (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachmont(a)		
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal C 6) Other:	Pate

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#### **DETAILED ACTION**

1. The Art Unit location of your application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Art Unit 2617.

This action is in response to applicant's amendment filed on July 07, 2006.
 Claims 1-20 are pending in the present application.

## Response to Arguments

3. Applicant's arguments filed on July 07, 2006 have been fully considered but they are not persuasive.

In response to applicant's argument that the references fail to show certain features of applicant's invention (see page 4, second paragraph of the response), it is noted that the features upon which applicant relies (i.e., initialization operation to be performed between UA and a second base station (such as a Target BS), and UE to notify the source BSC regarding a terminal's readiness) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See In re Van Geuns, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

With respect to applicant's argument that, "Jain does not disclose, teach or suggest paging a terminal by a second base station, notifying the terminal being ready to hand over upon recognizing that the second base station controller has completed

the paging of the terminal, and a procedure for call set up between the second base station and the terminal (see page 4, fourth paragraph of the response)." examiner respectfully disagrees and maintains that the combination of Back and Jain meets the limitations as claimed. Examiner reiterates that Jain was specifically incorporated to teach a roaming gateway for performing a standard conversion operation with respect to messages transmitted and received between said first mobile switching center and said second mobile switching center (see Jain, P. 1 [0008], p. 2 [0024-0027] and Fig. 1), and notes that Back teaches the signalling of messages between a target base station and source base station through a relay entity (see Back, p. 6 [0091-0094] and Fig. 5) but fails to explicitly teach the messages are signalled via a roaming gateway. Examiner notes that Back teaches paging a terminal by a second base station (see p. 6 [0091-0092] and Fig. 5 [i.e. the teaching of Back that, the base station controller 11 (i.e. the target base station, reads on a second base station) acknowledges the request for handover of user equipment 1 and pages the user equipment 1 via the relay control entity 4 and source radio network controller 6, reads on the limitation "paging a terminal by a second base station"]), notifying the terminal being ready to hand over upon recognizing that the second base station controller has completed the paging of the terminal, and a procedure for call set up between the second base station and the terminal (see p. 6 [0093-0094] and Fig. 5 [i.e. the teaching of Back that, the user equipment 1 is enabled to access the new radio resources and the target base station controller 11 detects that the user equipment has accessed the new radio channel in combination with the teaching of Back that the user equipment 1 acknowledges to the

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base station controller 11 that the handover has been successfully completed meets the limitations "notifying the terminal being ready to hand over upon recognizing that the second base station controller has completed the paging of the terminal, and a procedure for call set up between the second base station and the terminal"]).

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

In view of the above, the 35 U.S.C. 102(e) rejections using Back and the 35 U.S.C. 103(a) rejections using, Back, Jain and Kotzin, with regard to **claims 1-20** are proper and are maintained as repeated below. The rejections are made FINAL.

### Claim Rejections - 35 USC § 102

- 4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 5. Claims 15, 16, 18, and 20 are rejected under 35 U.S.C. 102(e) as being anticipated by Back et al., U.S. Publication Number 2004/0156329 A1 (hereinafter Back).

Regarding claim 15, Back discloses a method for handing over a terminal from a first base station to a second base station in a mobile communication system while the terminal is in communication with the first base station (see p. 5 [0071-0072], p. 6

[0088-0095] and Fig. 2; shows a UMTS to GSM handover involving mobile station 1). said mobile communication system including said first base station for providing a communication service in a first communication mode, a first base station controller connected with said first base station (see p. 4 [0055] and Fig. 2; shows a UMTS radio access network (UTRAN) including radio network controller (RNC) 7 connected with base station (BTS) 6), said second base station for providing a communication service in a second communication mode, said second communication mode being different from said first communication mode, and a second base station controller connected with said second base station (see p. 4 [0057] and Fig. 2; shows a GSM radio access network 9 including base station controller (BSC) 11 connected with base station (BTS) 10), said method comprising a) receiving from said first base station controller a notification that said terminal must hand over from said first base station to said second base station (see p. 6 [0089] and Fig. 5; message 1); and b) performing an initialization operation for communication with said second base station in said second communication mode upon receiving said notification, and then notifying said first base station controller that said terminal is ready to communicate in said second communication mode (see p. 6 [0089-0092]).

Regarding claim 16, Back teaches all the limitations of claim 15. In addition,

Back teaches a method, further comprising the step of: c) releasing current

communication of said terminal with said first base station after said terminal is ready to

communicate in said second communication mode (see p. 6 [0095]).

Regarding claim 18, Back discloses a method for handing over a terminal from a first base station to a second base station in a mobile communication system while the terminal is in communication with the first base station (see p. 5 [0071-0072], p. 6 [0088-0095] and Fig. 2; shows a UMTS to GSM handover involving mobile station 1), said mobile communication system including said first base station for providing a communication service in a first communication mode, a first base station controller connected with said first base station (see p. 4 [0055] and Fig. 2; shows a UMTS radio access network (UTRAN) including radio network controller (RNC) 7 connected with base station (BTS) 6), said second base station for providing a communication service in a second communication mode, said second communication mode being different from said first communication mode, and a second base station controller connected with said second base station (see p. 4 [0057] and Fig. 2; shows a GSM radio access network 9 including base station controller (BSC) 11 connected with base station (BTS) 10), said method comprising: a) notifying said terminal that said terminal will hand over from said first base station to said second base station upon determining that said terminal must hand over from said first base station to said second base station (see p. 6 [0092] and Fig. 5; message 5); and b) controlling said second base station controller to set up a call with said terminal upon receiving from said terminal a notification about the fact that said terminal is ready to communicate in said second communication mode (see p. 6 [0093-0095]).

Regarding claim 20, Back teaches all the limitations of claim 18. In addition,

Back teaches a method, further comprising: c) releasing current communication of said

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terminal based on said first communication mode upon receiving from said terminal said notification about the fact that said terminal is ready to communicate in said second communication mode (see p. 6 [0095]).

# Claim Rejections - 35 USC § 103

- 6. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 7. Claims 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Back et al., U.S. Publication Number 2004/0156329 A1 (hereinafter Back) and further in view of Jain et al., U.S. Publication Number 2003/0114155 A1 (hereinafter Jain).

Regarding claim 1, Back teaches a method for handing over a terminal from a first base station to a second base station in a mobile communication system while the terminal is in communication with the first base station (see p. 5 [0071-0072], p. 6 [0088-0095] and Fig. 2; shows a UMTS to GSM handover involving mobile station 1), wherein said mobile communication system includes said first base station for providing a communication service in a first communication mode, a first base station controller connected with said first base station and a first mobile switching center (see p. 4 [0055] and Fig. 2; shows a UMTS radio access network (UTRAN) including anchor MSC-A, and radio network controller (RNC) 7 connected with base station (BTS) 6), said second base station for providing a communication service in a second communication mode, said second communication mode being different from said first communication mode

(see p. 4 [0057] and Fig. 2 [i.e. the second base station (GSM BSS 10) is different from the first base station (UMTS BTS 6), since UMTS and GSM support different communication standards), a second base station controller connected with said second base station and a second mobile switching center (see p. 4 [0057] and Fig. 2; shows a GSM radio access network 9, including relay MSC-B and base station controller (BSC) 11 connected with base station (BTS) 10); and wherein said method comprises: a) controlling said terminal by said first base station controller such that said terminal performs an initialization operation based on said second communication mode with said second base station, upon determining that said terminal must hand over to said second base station (see p. 6 [0088-0089] and Fig. 5); b) notifying said first mobile switching center by said first base station controller that said terminal has completed said second communication mode-based initialization operation, if said terminal completes said second communication mode-based initialization operation with said second base station (see p. 6 [0092-0095] and Fig. 5); d) controlling said second base station controller by said second mobile switching center such that said second base station pages said terminal (see p. 6 [0091-0092] and Fig. 5); and h) controlling said first base station controller by said first mobile switching center to cause said first base station controller to releases current communication of said terminal with said first base station, as said call setup with said terminal is completed (see p. 6 [0094-0095] and Fig. 5).

Back fails to explicitly teach a roaming gateway for performing a standard conversion operation with respect to messages transmitted and received between said

first mobile switching center and said second mobile switching center, and wherein said method comprises: c) notifying said second mobile switching center by said first mobile switching center, via said roaming gateway that said terminal must hand over to said second base station; e) notifying said first mobile switching center by said second mobile switching center via said roaming gateway that said terminal is ready to hand over to said second base station, upon recognizing that said second base station controller has completed the paging of said terminal; f) controlling said second mobile switching center by said roaming gateway, such that said second base station controller sets up a call with said terminal, as said terminal is ready to hand over to said second base station; g) notifying said first mobile switching center by said second mobile switching center via said roaming gateway that the call setup with said terminal has been completed, upon recognizing that said second base station controller has completed said call setup with said terminal;

However, the use of a roaming gateway for performing a standard conversion operation and an address mapping with respect to messages transmitted and received between a first and second mobile switching center supporting different technologies is very well known in the art as taught for example by Jain. Jain teaches a method and system for a GSM mobile station roaming to an IS-41 system, wherein a roaming gateway interfaces between a CDMA mobile switching center (MSC) and a GSM core infrastructure to enable a mobile station subscribed in the GSM core infrastructure to communicate using the CDMA MSC (see p. 1 [0008] and Fig. 1; shows a roaming gateway 32 interfacing IS-41 MSC and GSM core 14 [i.e. includes a GSM MSC]).

According to Jain, when a GSM subscribed MS 12 roams into a CDMA area supported by an IS-41 MSC 22, the IS-41 MSC 22 accesses the roaming gateway by sending an authorization request along with the IMSI of the GSM subscribed MS 12 (see p. 2 [0024 & 0026]). Jain further teaches the roaming gateway accesses the GSM core infrastructure and obtains necessary authentication information, and the authentication information is used by the roaming gateway to determine whether the GSM subscribed MS 12 has been authenticated as a subscriber in the GSM core infrastructure (see p. 2 [0026-0027]). According to Jain, assuming authentication is successful, the roaming gateway informs the IS-41 MSC 22 to provide service to the MS 12 by sending the MSC 22 a location message that functions as a registration response, and in this way, the MS 12 essentially is registered with the IS-41 MSC 22 that is associated with the CDMA core infrastructure (see p. 2 [0027]).

It would therefore have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of using a roaming gateway for performing a standard conversion operation and an address mapping with respect to messages transmitted and received between a first and second mobile switching center supporting different networks of Jain, to the method of performing a handover between a plurality of different networks of Back, to include a roaming gateway for performing a standard conversion operation with respect to messages transmitted and received between a first and second mobile switching center supporting different networks, in order to permit a seamless use of a dual mode GSM subscribed mobile station when the mobile station

roams into a CDMA area, and without requiring a subscription in both a CDMA core and a GSM core as per the teachings of Jain (see p. 1 [0007]).

Regarding claim 8, Back teaches a system for handing over a terminal from a first base station to a second base station in a mobile communication system while the terminal is in communication with the first base station (see p. 5 [0071-0072], p. 6 [0088-0095] and Fig. 2; shows a UMTS to GSM handover involving mobile station 1), said first base station providing a communication service in a first communication mode. said second base station providing a communication service in a second communication mode, said second communication mode being different from said first communication mode (see p. 4 [0055 & 0057] and Fig. 2 [i.e. the second base station (GSM BSS 10) is different from the first base station (UMTS BTS 6), since UMTS and GSM support different communication standards), said system comprising: a first base station controller for controlling said terminal upon determining that said terminal must hand over to said second base station (see p. 6 [0088-0089] and Fig. 2; shows a source UMTS RNC 6 [i.e. reads on a first base station controller]), such that said terminal performs an initialization operation based on said second communication mode with said second base station (see p. 6 [0088-0089] and Fig. 5), notifying a first mobile switching center that said terminal has completed said second communication modebased initialization operation (see p. 6 [0092-0095] and Fig. 5), upon recognizing that said terminal has completed said second communication mode-based initialization operation, and then releasing a call currently set up with said terminal if said terminal hands over to said second base station (see p. 6 [0094-0095] and Fig. 5); said first

mobile switching center for notifying a second mobile switching center to which said second base station belongs that said terminal must hand over to said second base station, upon recognizing that said terminal has completed said second communication mode-based initialization operation, and then controlling said first base station controller to release said call currently set up with said terminal, upon recognizing that said terminal is ready to hand over to said second base station (see p. 6 [0088-0095] and Fig. 2; shows a UMTS radio access network (UTRAN) including anchor MSC-A [i.e. reads on a first mobile switching center], radio network controller (RNC) 7 [i.e. reads on a first base station controller], and a GSM radio access network 9, including relay MSC-B [i.e. reads on a second mobile switching center], base station controller (BSC) 11 [i.e. reads on a second base station controller] connected with base station (BTS) 10 [i.e. reads on a second base station]); said second mobile switching center for controlling a second base station controller to which said second base station is connected if said second mobile switching center is notified that said terminal must hand over to said second base station (see p. 6 [0089] and Fig. 5), such that said second mobile switching center pages said terminal, notifying said first mobile switching center that said terminal is ready to hand over to said second base station, upon recognizing that said second base station controller has completed the paging of said terminal (see p. 6 [0090-0092] and Fig. 5), and then notifying said first mobile switching center that a second communication mode-based call setup with said terminal has been completed. upon recognizing that said second base station controller has completed the call setup

with said terminal according to a predetermined control (see p. 6 [0090-0092] and Fig.

5); said second base station controller for paging said terminal under the control of said second mobile switching center and performing said call setup with said terminal after completing the paging of said terminal (see p. 6 [0090-0095] and Fig. 5).

Back fails to explicitly teach a roaming gateway for performing a standard conversion operation with respect to messages transmitted and received between said first mobile switching center and said second mobile switching center.

However, the use of a roaming gateway for performing a standard conversion operation and an address mapping with respect to messages transmitted and received between a first and second mobile switching center supporting different technologies is very well known in the art as taught for example by Jain. Jain teaches a method and system for a GSM mobile station roaming to an IS-41 system, wherein a roaming gateway interfaces between a CDMA mobile switching center (MSC) and a GSM core infrastructure to enable a mobile station subscribed in the GSM core infrastructure to communicate using the CDMA MSC (see p. 1 [0008] and Fig. 1; shows a roaming gateway 32 interfacing IS-41 MSC and GSM core 14 [i.e. includes a GSM MSC]). According to Jain, when a GSM subscribed MS 12 roams into a CDMA area supported by an IS-41 MSC 22, the IS-41 MSC 22 accesses the roaming gateway by sending an authorization request along with the IMSI of the GSM subscribed MS 12 (see p. 2 [0024 & 0026]). Jain further teaches the roaming gateway accesses the GSM core infrastructure and obtains necessary authentication information, and the authentication information is used by the roaming gateway to determine whether the GSM subscribed MS 12 has been authenticated as a subscriber in the GSM core infrastructure (see p. 2

[0026-0027]). According to Jain, assuming authentication is successful, the roaming gateway informs the IS-41 MSC 22 to provide service to the MS 12 by sending the MSC 22 a location message that functions as a registration response, and in this way, the MS 12 essentially is registered with the IS-41 MSC 22 that is associated with the CDMA core infrastructure (see p. 2 [0027]).

It would therefore have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of using a roaming gateway for performing a standard conversion operation and an address mapping with respect to messages transmitted and received between a first and second mobile switching center supporting different networks of Jain, to system of Back, to include a roaming gateway for performing a standard conversion operation with respect to messages transmitted and received between said first mobile switching center and said second mobile switching center, in order to permit a seamless use of a dual mode GSM subscribed mobile station when the mobile station roams into a CDMA area, and without requiring a subscription in both a CDMA core and a GSM core as per the teachings of Jain (see p. 1 [0007]).

Regarding claim 2, Back in view of Jain teaches all the limitations of claim 1.

Jain further teaches a method, wherein said first mobile switching center is adapted to send a message including an international mobile subscriber identity of said terminal to said roaming gateway to notify said second mobile switching center that said terminal must hand over to said second base station (see p. 2 [0024-0026]).

Regarding claim 3, Back in view of Jain teaches all the limitations of claim 2. Jain further teaches a method, wherein said roaming gateway is adapted to send a message including only a mobile identification number of said international mobile subscriber identity of said terminal to said second mobile switching center to notify said second mobile switching center that said terminal must hand over to said second base station (see p. 2 [0024-0027]).

Regarding claim 4, Back in view of Jain teaches all the limitations of claim 2.

Jain further teaches a method, wherein said roaming gateway is adapted to send a message including said mobile identification number and a circuit identity code to said second mobile switching center to control said second mobile switching center such that said second base station controller sets up said call with said terminal (see p. 2 [0024-0027]).

Regarding claim 6, Back in view of Jain teaches all the limitations of claim 1.

Jain further teaches a method, wherein said roaming gateway is adapted to perform standard mapping between said first communication mode of said first mobile switching center and said second communication mode of said second mobile switching center (see p. 2 [0024-0027]).

Regarding claim 9, Back in view of Jain teaches all the limitations of claim 8.

Jain further teaches a system, wherein said roaming gateway is adapted to detect a standard of an incoming message from said first mobile switching center or said second mobile switching center and, if the detected standard is different from that of said second or first mobile switching center to which said message is to be transferred, map

said standard of said message to be conformable to said standard of said second or first mobile switching center to which said message is to be transferred (see p. 2 [0024-0027]).

Regarding claim 10, Back in view of Jain teaches all the limitations of claim 8. Jain further teaches a system, wherein said first mobile switching center is adapted to send a message including an international mobile subscriber identity of said terminal to said roaming gateway to notify said second mobile switching center that said terminal must hand over to said second base station (see p. 2 [0024-0027]).

Regarding claim 11, Back in view of Jain teaches all the limitations of claim 10. Jain further teaches a system, wherein said roaming gateway is adapted to send a message including only a mobile identification number of said international mobile subscriber identity of said terminal to said second mobile switching center to notify said second mobile switching center that said terminal must hand over to said second base station (see p. 2 [0024-0027]).

Regarding claim 12, Back in view of Jain teaches all the limitations of claim 10.

Jain further teaches a system, wherein said roaming gateway is adapted to send a message including said mobile identification number and a circuit identity code to said second mobile switching center to control said second mobile switching center such that said second base station controller performs said call setup with said terminal (see p. 2 [0024-0027]).

Regarding claims 7 and 14, Back in view of Jain teaches all the limitations of claims 1 and 8. Back further teaches a method and system, wherein said first

communication mode is an asynchronous communication mode and said second communication mode is a synchronous communication mode (see p. 1 [0003], p. 7 [0108] [i.e. Back meets the limitation "said first communication mode is an asynchronous communication mode and said second communication mode is a synchronous communication mode" since Back teaches a handover between different communication standards such as GSM, UMTS (i.e. is very well known in the art to employ an asynchronous CDMA scheme), GPRS and IMT 2000 (i.e. is very well known in the art to employ a synchronous CDMA 2000 scheme)]).

8. Claims 5 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Back et al., U.S. Publication Number 2004/0156329 A1 (hereinafter Back) and Jain et al., U.S. Publication Number 2003/0114155 A1 (hereinafter Jain) as applied to claims 1 and 8 above, and further in view of Kotzin et al., U.S. Patent Number 6,108,322 (hereinafter Kotzin).

Regarding claims 5 and 13, Back in view of Jain teaches all the limitations of claims 1 and 8. Back in view of Jain fails to explicitly teach a method and system, wherein said first base station controller is adapted to determine that said terminal must hand over to said second base station, when neighbor cell information of said terminal is insufficient.

Kotzin teaches a method of enabling handoff in a wireless communication system, wherein when degraded conditions are detected by a mobile station, an expedited process is begun to improve the likelihood of providing information necessary

to handover to a viable target candidate station (see col. 2, lines 26-50). According to Kotzin, the mobile station will report measurements of any control channel found to the network and the mobile or serving base station determines which measured and decoded neighbor cell is the strongest and in conjunction with the cellular network, determines if this identified strongest neighbor is available, and if a stronger base is available, the mobile requests a handoff (see col. 6, lines 13-24).

It would therefore have been obvious to one of ordinary skill in the art at the time of the invention to modify Back and Jain with Kotzin, to include a method of determining that said terminal must hand over from said first base station to said second base station, when neighbor cell information received from said terminal is insufficient, in order to expedite the process of improving the likelihood of providing information necessary to handover to a viable target candidate station and thus minimizing the handoff time in a communication system.

9. Claims 17 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Back et al., U.S. Publication Number 2004/0156329 A1 (hereinafter Back) as applied to claims 15 and 18 above, and further in view of Kotzin et al., U.S. Patent Number 6,108,322 (hereinafter Kotzin).

Regarding claims 17 and 19, Back teaches all the limitations of claims 15 and 18. Back fails to explicitly teach a system and a method further comprises, determining that said terminal must hand over from said first base station to said second base station, when neighbor cell information received from said terminal is insufficient.

Kotzin teaches a method of enabling handoff in a wireless communication system, wherein when degraded conditions are detected by a mobile station, an expedited process is begun to improve the likelihood of providing information necessary to handover to a viable target candidate station (see col. 2, lines 26-50). According to Kotzin, the mobile station will report measurements of any control channel found to the network and the mobile or serving base station determines which measured and decoded neighbor cell is the strongest and in conjunction with the cellular network, determines if this identified strongest neighbor is available, and if a stronger base is available, the mobile requests a handoff (see col. 6, lines 13-24).

It would therefore have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of using neighbor cell information to determine when to perform a handover of Kotzin, to the method of performing a handover between a plurality of different networks of Back, to include a method of determining that said terminal must hand over from said first base station to said second base station, when neighbor cell information received from said terminal is insufficient, in order to expedite the process of improving the likelihood of providing information necessary to handover to a viable target candidate station and thus minimizing the handoff time in a communication system.

#### Conclusion

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony S. Addy whose telephone number is 571-272-7795. The examiner can normally be reached on Mon-Thur 8:00am-6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duc M. Nguyen can be reached on 571-272-7503. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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